

Petition No. 1085  
Bloom Energy/Home Depot  
117 Main Street, Derby Connecticut  
Staff Report  
January 16, 2014

On November 8, 2013, the Connecticut Siting Council (Council) received a petition from Bloom Energy Corporation (Bloom), acting as agent for Home Depot, for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the installation of an approximately 200 kW fuel cell facility at a Home Depot store at 117 Main Street, Derby, Connecticut. Council member Phil Ashton and Siting Analyst Michael Perrone visited the site on December 18, 2013 to review the proposal. Jay Stevenson, from Core States Group, represented Bloom at the field review.

Bloom's fuel cell facility would be a customer-side, distributed resources project that would consist of an approximately 200 kW Bloom solid oxide fuel cell Energy Server to be owned and operated by Home Depot. The overall dimensions of the fuel cell would be approximately 26' -5" long by 8' -7" wide by 6' -9" tall. It would be installed on a pre-cast concrete pad on a grass area on the south side of the building. The nearest residential structure is approximately 140 feet to the west.

Gas and electric utility lines are located in the vicinity of the fuel cell's proposed location behind the building. The fuel cell would be interconnected to the Home Depot store's electrical system from an underground line. The gas line would also be underground from the building to the fuel cell.

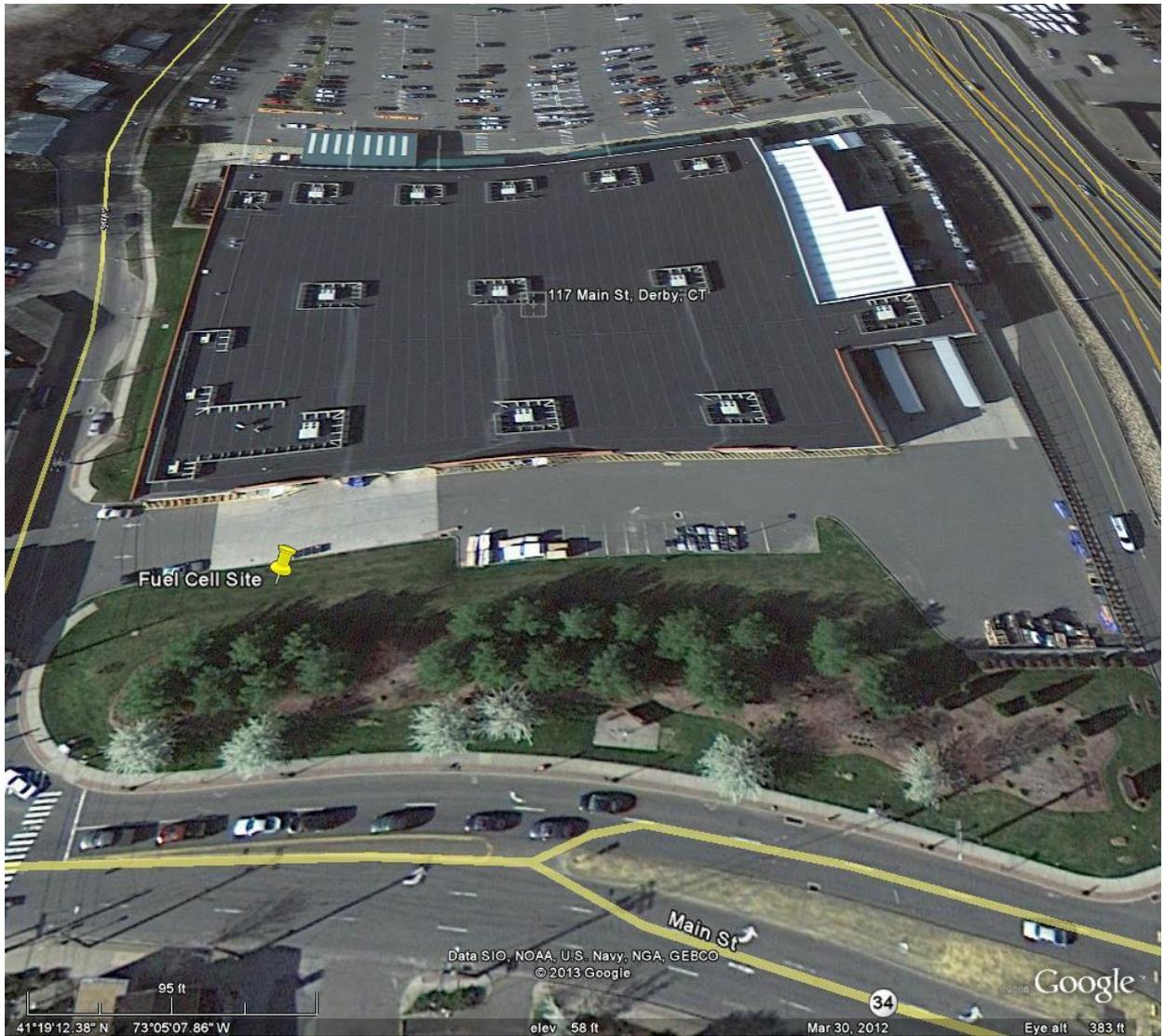
The fuel cell is designed in accordance with American National Standards Institute and Canada Standards Association (ANSI/CSA) America FC 1-2004 for stationary fuel cell power systems and includes extensive safety control systems, including an automatic shutdown mechanism, that comply with pertinent engineering standards.

A noise study conducted for this installation determined that sound levels generated by the fuel cell will meet all applicable requirements at any off-site noise receptors and would not require any noise barriers to be erected provided the fuel cell is re-located 50 feet to the east on the subject property. Bloom submitted a revised site plan with the new location. The proposed fuel cell facility would comply with all applicable air and water quality standards of the Department of Energy and Environmental Protection.

The Connecticut Public Utilities Regulatory Authority (PURA), in its Final Decision in Docket No. 12-02-06, determined that Bloom's Energy Server qualifies as a Class I renewable energy source as defined in Conn. Gen. Stat. § 16-1(a)(26)(A). Furthermore, Bloom was selected by UI as the winning bidder in the joint UI/CL&P request for proposals for their "Low and Zero Emissions Renewable Energy Credit Program." As a result of its selection, Bloom has entered into a standard contract for the purchase and sale of Class I renewable energy credits.

Bloom has notified abutting property owners, the Town of Derby, and others as required when the petition was filed with the Council. To date, no comments have been received.

The proposed installation of the fuel cell is not expected to have any substantial adverse environmental impacts. It would reduce the emission of air pollutants that contribute to smog, acid rain, and global climate change. It would also contribute to the state's use of renewable energy.



95 ft  
41°19'12.38" N 73°05'07.86" W

Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
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elev 58 ft

Mar 30, 2012

Eye alt 383 ft

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